

(Absence of an entry indicates that the data were not estimated.)

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
AlB: Allegheny-----	0-8	Loam	CL, ML	A-4	0	0	90-100	80-100	65-100	55-95	15-35	NP-10
	8-40	Clay loam, loam, sandy clay loam	CL, ML, SC, SM	A-4, A-6	0	0	90-100	80-100	65-95	35-80	15-35	NP-15
	40-65	Gravelly clay loam, sandy loam, gravelly sandy loam	CL, GC, ML, SM	A-1, A-2, A- 4, A-6	---	0-5	65-100	55-100	35-95	20-75	15-35	NP-15
AlC: Allegheny-----	0-8	Loam	CL, ML	A-4	0	0	90-100	80-100	65-100	55-95	15-35	NP-10
	8-40	Clay loam, loam, sandy clay loam	CL, ML, SC, SM	A-4, A-6	0	0	90-100	80-100	65-95	35-80	15-35	NP-15
	40-65	Gravelly clay loam, sandy loam, gravelly sandy loam	CL, GC, ML, SM	A-1, A-2, A- 4, A-6	---	0-5	65-100	55-100	35-95	20-75	15-35	NP-15
At: Atkins-----	0-4	Silt loam	CL, CL-ML, ML	A-4, A-6	0	0	90-100	85-100	75-100	60-95	20-40	3-20
	4-25	Silty clay loam, silt loam, sandy loam	CL, ML, SC, SM	A-4, A-6	---	0-5	90-100	85-100	65-100	45-85	20-40	3-20
	25-65	Stratified gravelly sandy loam to silty clay loam	CL, GM, ML, SM	A-2, A-4, A-6	---	0-15	60-100	60-100	50-95	30-85	20-40	1-15

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
BaB: Belmont-----	0-6	Silt loam	CL, CL-ML, ML	A-4, A-6	---	0-5	80-100	75-100	65-100	50-90	20-40	5-15
	6-23	Channery silty clay loam, silt loam, clay loam	CL, CL-ML, ML	A-4, A-6, A-7	---	0-5	80-100	75-100	70-100	50-95	25-45	5-20
	23-35	Channery silty clay loam, clay loam, silty clay	CL	A-6, A-7	---	0-5	80-100	75-100	70-100	50-95	25-50	11-25
	35-51	Very channery silty clay, very channery clay loam, channery silty clay loam, channery sandy clay loam	CL, GC	A-4, A-6, A-7	---	0-20	40-75	35-70	25-70	15-65	25-45	7-25
	51-55	Unweathered bedrock			---	---	---	---	---	---	---	---
BaC: Belmont-----	0-6	Silt loam	CL, CL-ML, ML	A-4, A-6	---	0-5	80-100	75-100	65-100	50-90	20-40	5-15
	6-23	Channery silty clay loam, silt loam, clay loam	CL, CL-ML, ML	A-4, A-6, A-7	---	0-5	80-100	75-100	70-100	50-95	25-45	5-20
	23-35	Channery silty clay loam, clay loam, silty clay	CL	A-6, A-7	---	0-5	80-100	75-100	70-100	50-95	25-50	11-25
	35-51	Very channery clay loam, very channery silty clay loam, channery sandy clay loam	CL, GC	A-4, A-6, A-7	---	0-20	40-75	35-70	25-70	15-65	25-45	7-25
	51-55	Unweathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
BaD: Belmont-----	0-6	Silt loam	CL, CL-ML, ML	A-4, A-6	---	0-5	80-100	75-100	65-100	50-90	20-40	5-15
	6-23	Channery silty clay loam, silt loam, clay loam	CL, CL-ML, ML	A-4, A-6, A-7	---	0-5	80-100	75-100	70-100	50-95	25-45	5-20
	23-35	Channery silty clay loam, clay loam, silty clay	CL	A-6, A-7	---	0-5	80-100	75-100	70-100	50-95	25-50	11-25
	35-51	Very channery clay loam, very channery silty clay loam, channery sandy clay loam	CL, GC	A-4, A-6, A-7	---	0-20	40-75	35-70	25-70	15-65	25-45	7-25
	51-55	Unweathered bedrock			---	---	---	---	---	---	---	---
BbC: Belmont-----	0-6	Silt loam	CL, CL-ML, ML	A-4, A-6	---	0-5	80-100	75-100	65-100	50-90	20-40	5-15
	6-23	Channery silty clay loam, silt loam, clay loam	CL, CL-ML	A-4, A-6, A-7	---	0-5	80-100	75-100	70-100	50-95	25-45	5-20
	23-35	Channery silty clay loam, clay loam, silty clay	CL	A-6, A-7	---	0-5	80-100	75-100	70-100	50-95	25-50	11-25
	35-51	Very channery clay loam, very channery silty clay loam, channery sandy clay loam	CL, GC, SC	A-2, A-4, A-6, A-7	---	0-20	40-75	35-70	25-70	15-65	25-45	7-25
	51-55	Unweathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

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Table H.--Engineering Index Properties--Continued

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Table H.--Engineering Index Properties--Continued

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Table H.--Engineering Index Properties--Continued

[illegible]

Table H.--Engineering Index Properties--Continued

[illegible]

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
Dekalb-----	0-4	Channery loam	CL-ML, GM, ML, SM	A-1, A-2, A-4	0-6	10-30	50-90	45-80	40-75	20-55	10-32	NP-10
	4-26	Channery sandy loam, channery loam, very channery sandy loam, very channery loam	GC-GM, GM, ML, SM	A-1, A-2, A-4	0	5-40	50-85	40-75	40-75	20-55	15-32	NP-9
	26-36	Channery sandy loam, flaggy sandy loam, very flaggy loamy sand, very channery sandy loam	GC, GM, SC, SM	A-1, A-2, A-4	0-1	10-50	45-85	25-75	20-65	15-40	15-32	NP-9
	36-40	Unweathered bedrock			---	---	---	---	---	---	---	---
Other Soils-----	---	---	---	---	---	---	---	---	---	---	---	---
BgE: Berk-----	0-4	Channery silt loam	GC, GM, SC, SM	A-2, A-4	0-6	15-30	40-80	35-70	30-60	25-45	25-36	5-10
	4-22	Channery loam, very channery loam, channery silt loam	GC, GM, SC, SM	A-1, A-2, A-4	0	0-30	40-80	35-70	25-60	20-45	25-36	5-10
	22-31	Channery loam, very channery loam, channery silt loam, very channery silt loam	GM, SM	A-1, A-2	0	0-40	35-65	25-55	20-40	15-35	24-38	2-10
	31-35	Weathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

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Table H.--Engineering Index Properties--Continued

[illegible]

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
Weikert-----	0-6	Channery silt loam	GM, ML, SM	A-1, A-2, A-4	0-6	3-15	35-70	35-70	25-65	20-55	30-40	4-10
	6-15	Very channery loam, very channery silt loam, gravelly loam	GM, GP-GM	A-1, A-2	0	0-20	15-60	10-55	5-45	5-35	28-36	3-9
	15-19	Weathered bedrock			---	---	---	---	---	---	---	---
Calvin-----	0-4	Channery silt loam	CL, ML	A-4	0-6	3-15	70-100	70-100	65-95	55-90	---	---
	4-27	Channery silt loam, channery loam, channery clay loam	GM, ML, SM	A-2, A-4, A-6	0	0-15	70-95	55-90	40-90	30-75	22-38	NP-11
	27-39	Channery silt loam, very channery silt loam, very channery loam, extremely channery silt loam	GC-GM, GM, SC-SM, SM	A-1, A-2, A-6	0	0-20	35-75	30-65	15-60	15-40	23-39	3-11
	39-43	Unweathered bedrock			---	---	---	---	---	---	---	---
Other Soils-----	---	---	---	---	---	---	---	---	---	---	---	---
B1C: Blackthorn-----	0-10	Channery loam	CL-ML, ML, SC-SM, SM	A-1, A-2, A-4	5-25	5-15	65-90	60-85	35-70	15-55	15-27	NP-7
	10-51	Channery sandy loam, very channery sandy loam, channery loam	GM, SC, SC- SM, SM	A-1, A-2, A-4	---	5-30	40-90	25-90	20-60	10-45	18-30	1-9
	51-65	Clay, clay loam, channery silty clay loam, silty clay	CH, CL	A-6, A-7	---	0-10	85-100	70-100	65-95	55-90	30-65	15-40

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
BlE: Blackthorn-----	0-10	Channery loam	CL-ML, ML, SC-SM, SM	A-4, A-1, A-2	5-25	5-15	65-90	60-85	35-70	15-55	15-27	NP-7
	10-51	Channery sandy loam, very channery sandy loam, channery loam	GM, SC, SC- SM, SM	A-1, A-2, A-4	---	5-30	40-90	25-90	20-60	10-45	18-30	1-9
	51-65	Clay, clay loam, channery silty clay loam, silty clay	CH, CL	A-6, A-7	---	0-10	85-100	70-100	65-95	55-90	30-65	15-40
BlF: Blackthorn-----	0-10	Channery loam	SM, CL-ML, ML, SC-SM	A-1, A-2, A-4	5-25	5-15	65-90	60-85	35-70	15-55	15-27	NP-7
	10-51	Channery sandy loam, very channery sandy loam, channery loam	GM, SC, SC- SM, SM	A-1, A-2, A-4	---	5-30	40-90	25-90	20-60	10-45	18-30	1-9
	51-65	Clay, clay loam, channery silty clay loam, silty clay	CH, CL	A-6, A-7	---	0-10	85-100	70-100	65-95	55-90	30-65	15-40
BoB: Blairton-----	0-2	Silt loam	CL-ML, ML	A-4	0	0	80-100	75-100	65-90	50-80	20-35	2-10
	2-24	Silt loam, channery silty clay loam, very channery loam	CL, GM, ML	A-2, A-4, A- 6, A-7	---	0-5	50-90	35-90	30-85	25-70	25-42	2-20
	24-34	Very channery loam, channery loam, very channery silt loam, very channery silty clay loam	CL, GM, ML, SM	A-1, A-2, A- 4, A-6	---	0-10	15-65	15-65	15-65	10-60	25-40	2-12
	34-38	Unweathered bedrock			---	---	---	---	---	---	---	---

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
BrF: Briery-----	0-2	Very channery silt loam	GC	A-2, A-4	---	3-15	45-60	40-55	30-50	20-40	25-35	7-11
	2-65	Very channery silt loam, extremely channery silty clay loam	GC	A-2, A-4	---	5-30	30-55	25-50	25-45	20-45	25-35	7-11
Other Soils----	---	---	---	---	---	---	---	---	---	---	---	---
Rock Outcrop----	0-60	Unweathered bedrock			---	---	---	---	---	---	---	---
CaC: Calvin-----	0-4	Channery silt loam	CL, ML	A-4	0	0-15	70-95	70-90	65-90	55-75	---	---
	4-27	Channery silt loam, channery loam	GM, ML, SM	A-2, A-4, A-6	0	0-15	70-95	55-90	40-90	30-75	22-38	NP-11
	27-39	Extremely channery silt loam, very channery silt loam, very channery loam	GC, GM, SC, SM	A-1, A-2, A- 4, A-6	0	0-20	35-75	15-45	15-45	15-40	23-39	3-13
	39-43	Unweathered bedrock			---	---	---	---	---	---	---	---
CbC: Calvin-----	0-4	Channery silt loam	CL, ML	A-4	0-6	3-15	70-100	70-100	65-95	55-90	---	---
	4-27	Channery silt loam, channery loam, channery clay loam	GM, ML, SM	A-2, A-4, A-6	0	0-15	70-95	55-90	40-90	30-75	22-38	NP-11
	27-39	Channery silt loam, very channery silt loam, very channery loam	GC-GM, GM, SC-SM, SM	A-1, A-2, A-6	0	0-20	35-75	30-65	15-60	15-40	23-39	3-11
	39-43	Unweathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

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Table H.--Engineering Index Properties--Continued

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Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
Dekalb-----	0-4	Channery loam	CL-ML, GM, ML, SM	A-1, A-2, A-4	0-6	10-30	50-90	45-80	40-75	20-55	10-32	NP-10
	4-26	Channery sandy loam, channery loam, very channery sandy loam	GC-GM, GM, ML, SM	A-1, A-2, A-4	0	5-40	50-85	40-75	40-75	20-55	15-32	NP-9
	26-36	Channery sandy loam, flaggy sandy loam, very flaggy loamy sand	GC, GM, SC, SM	A-1, A-2, A-4	0-1	10-50	45-85	25-75	20-65	15-40	15-32	NP-9
	36-40	Unweathered bedrock			---	---	---	---	---	---	---	---
Berks-----	0-4	Channery silt loam	GC, GM, SC, SM	A-2, A-4	0-6	15-30	40-80	35-70	30-60	25-45	25-36	5-10
	4-22	Channery loam, very channery loam, channery silt loam	GC, GM, SC, SM	A-1, A-2, A-4	0	0-30	40-80	35-70	25-60	20-45	25-36	5-10
	22-31	Channery loam, very channery loam, channery silt loam	GM, SM	A-1, A-2	0	0-40	35-65	25-55	20-40	15-35	24-38	2-10
	31-35	Weathered bedrock			---	---	---	---	---	---	---	---
Other Soils----	---	---	---	---	---	---	---	---	---	---	---	---
CeB: Cateache-----	0-6	Channery silt loam	CL, CL-ML, GC, GC-GM	A-4, A-6	---	0-10	70-85	65-80	60-75	45-70	20-40	4-15
	6-28	Channery silty clay loam, very channery silty clay loam	CL, CL-ML, GC, GC-GM	A-2, A-4, A-6	---	0-15	40-85	35-80	30-80	25-70	20-40	4-15
	28-32	Very channery silty clay loam, extremely channery silty clay loam	GC, GC-GM, GP, GP-GC	A-1, A-2, A- 4, A-6	---	0-20	20-60	10-50	10-45	10-40	20-40	4-15
	32-36	Weathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

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Table H.--Engineering Index Properties--Continued

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Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
CfF: Cateache-----												
	0-6	Channery silt loam	CL, CL-ML, GC, GC-GM	A-4, A-6	---	15-30	70-85	65-80	60-75	45-70	20-40	4-15
	6-28	Channery silty clay loam, very channery silty clay loam	CL, CL-ML, GC, GC-GM	A-2, A-4, A-6	---	0-15	40-85	35-80	30-80	25-70	20-40	4-15
	28-32	Very channery silty clay loam, extremely channery silty clay loam	GC, GC-GM, GP-GC	A-1, A-2, A- 4, A-6	---	0-20	20-60	10-50	10-45	10-40	20-40	4-15
	32-36	Weathered bedrock			---	---	---	---	---	---	---	---
CfG: Cateache-----												
	0-6	Channery silt loam	CL, CL-ML, GC, GC-GM	A-4, A-6	---	15-30	70-85	65-80	60-75	45-70	20-40	4-15
	6-28	Channery silty clay loam, very channery silty clay loam	CL, CL-ML, GC, GC-GM	A-4, A-6, A-2	---	0-15	40-85	35-80	30-80	25-70	20-40	4-15
	28-32	Very channery silty clay loam, extremely channery silty clay loam	GC, GC-GM, GP-GC	A-1, A-2, A- 4, A-6	---	0-20	20-60	10-50	10-45	10-40	20-40	4-15
	32-36	Weathered bedrock			---	---	---	---	---	---	---	---
Ch: Chavies-----												
	0-8	Fine sandy loam	CL-ML, ML, SC-SM, SM	A-4	0	0	85-100	75-100	40-90	40-75	15-25	NP-5
	8-41	Fine sandy loam, silt loam, loam	ML, SM	A-4	0	0	85-100	75-100	65-100	45-85	15-35	NP-8
	41-65	Fine sandy loam, gravelly fine sandy loam, loam	CL-ML, ML, SC-SM, SM	A-1-b, A-2, A-4	---	0-5	70-100	60-95	40-85	20-75	15-25	NP-5

Table H.--Engineering Index Properties--Continued

[illegible]

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
CuE: Culleoka-----	0-1	Silt loam	CL, CL-ML, ML	A-4	---	0-5	90-100	85-100	70-100	55-95	15-35	NP-10
	1-21	Channery silt loam, flaggy loam, silty clay loam	CL, CL-ML, ML	A-4, A-6	---	5-25	80-95	75-95	65-95	55-90	20-40	2-20
	21-33	Very flaggy silty clay loam, flaggy loam	CL, GC, GM, ML	A-2, A-4, A-6	---	10-60	50-95	40-90	35-90	30-85	20-40	2-20
	33-37	Unweathered bedrock			---	---	---	---	---	---	---	---
CuF: Culleoka-----	0-1	Silt loam	CL, CL-ML, ML	A-4	---	0-5	90-100	85-100	70-100	55-95	15-35	NP-10
	1-21	Channery silt loam, flaggy loam, silty clay loam	CL, CL-ML, ML	A-4, A-6	---	5-25	80-95	75-95	65-95	55-90	20-40	2-20
	21-33	Very flaggy silty clay loam, flaggy loam	CL, GC, GM, ML	A-2, A-4, A-6	---	10-60	50-95	40-90	35-90	30-85	20-40	2-20
	33-37	Unweathered bedrock			---	---	---	---	---	---	---	---
DhC: Dekalb-----	0-4	Channery loam	CL-ML, GM, ML, SM	A-1, A-2, A-4	0-6	10-30	50-90	45-80	40-75	20-55	10-32	NP-10
	4-26	Channery sandy loam, channery loam, very channery sandy loam	GC-GM, GM, ML, SM	A-1, A-2, A-4	0	5-40	50-85	40-75	40-75	20-55	15-32	NP-9
	26-36	Channery sandy loam, flaggy sandy loam, very flaggy loamy sand	GC, GM, SC, SM	A-1, A-2, A-4	0-1	10-50	45-85	25-75	20-65	15-40	15-32	NP-9
	36-40	Unweathered bedrock			---	---	---	---	---	---	---	---

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Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
DhF: Dekalb-----	0-4	Channery loam	CL-ML, GM, ML, SM	A-1, A-2, A-4	0-6	10-30	50-90	45-80	40-75	20-55	10-32	NP-10
	4-26	Channery sandy loam, channery loam, very channery sandy loam	GC-GM, GM, ML, SM	A-1, A-2, A-4	0	5-40	50-85	40-75	40-75	20-55	15-32	NP-9
	26-36	Channery sandy loam, flaggy sandy loam, very flaggy loamy sand	GC, GM, SC, SM	A-1, A-2, A-4	0-1	10-50	45-85	25-75	20-65	15-40	15-32	NP-9
	36-40	Unweathered bedrock			---	---	---	---	---	---	---	---
Hazleton-----	0-2	Channery loam	GM, ML, SM	A-2, A-4	0-5	5-15	60-85	50-80	50-70	30-55	---	---
	2-30	Channery sandy loam, channery loam, loam	GM, ML, SC, SM	A-1, A-2, A-4	0-5	0-50	60-95	45-90	35-70	20-55	15-30	NP-8
	30-50	Channery loam, very channery sandy loam, very channery loamy sand	GC, GM, SC, SM	A-4, A-1, A-2	2-10	5-60	50-80	35-75	25-65	15-50	15-30	NP-8
	50-54	Unweathered bedrock			---	---	---	---	---	---	---	---
Other Soils-----	---	---	---	---	---	---	---	---	---	---	---	---
DuB: Duffield-----	0-8	Silt loam	CL, CL-ML, ML	A-4, A-6, A-7	0	0	85-100	85-100	80-100	70-95	20-50	5-20
	8-37	Silty clay loam, silty clay, channery loam	CH, CL, MH, ML	A-4, A-6, A-7	0	0-10	65-100	60-100	55-100	55-95	30-55	8-22
	37-46	Channery silt loam, loam, clay	MH, ML, SM, GM	A-5, A-7	0	0-20	65-100	50-100	45-90	40-90	40-60	9-29

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Table H.--Engineering Index Properties--Continued

[illegible]

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
LlB: Lily-----	0-2	Loam	CL-ML, ML	A-4	---	0-5	90-100	85-100	70-95	55-80	15-35	NP-10
	2-32	Clay loam, sandy clay loam, loam	CL, ML, SC, SM	A-4, A-6	---	0-5	90-100	85-100	75-100	40-80	15-35	3-15
	32-36	Unweathered bedrock			---	---	---	---	---	---	---	---
LlC: Lily-----	0-2	Loam	CL-ML, ML	A-4	---	0-5	90-100	85-100	70-95	55-80	15-35	NP-10
	2-32	Clay loam, sandy clay loam, loam	CL, ML, SC, SM	A-4, A-6	---	0-5	90-100	85-100	75-100	40-80	15-35	3-15
	32-36	Unweathered bedrock			---	---	---	---	---	---	---	---
LlD: Lily-----	0-2	Loam	CL-ML, ML	A-4	---	0-5	90-100	85-100	70-95	55-80	15-35	NP-10
	2-32	Clay loam, sandy clay loam, loam	CL, ML, SC, SM	A-4, A-6	---	0-5	90-100	85-100	75-100	40-80	15-35	3-15
	32-36	Unweathered bedrock			---	---	---	---	---	---	---	---
Lo: Lobdell-----	0-10	Silt loam	CL, CL-ML, ML	A-4	0	0	95-100	90-100	80-100	65-90	20-30	NP-8
	10-28	Loam, silt loam	ML	A-4	0	0	90-100	80-100	70-95	55-85	20-35	NP-10
	28-65	Stratified sandy loam to silt loam	CL, CL-ML, ML, SM	A-4	0	0	90-100	80-100	65-85	40-80	15-35	NP-10
Holly-----	---	---	---	---	---	---	---	---	---	---	---	---
LyB: Lodi-----	0-6	Silt loam	CL, ML, SC, SM	A-2, A-4, A-6	---	0-5	80-100	75-95	50-90	25-85	15-30	NP-15
	6-21	Loam, silt loam, clay loam	CL	A-6	---	0-10	85-100	75-95	65-90	55-85	25-40	10-20
	21-47	Clay, silty clay loam, sandy clay loam	CH, CL, SC	A-7	---	0-5	85-100	75-95	60-95	40-80	40-60	20-35
	47-65	Silty clay, sandy clay loam, loam	CL, ML, SC, SM	A-4, A-6	---	0-5	85-100	75-95	60-85	40-80	15-40	NP-25

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
LyC: Lodi-----												
	0-6	Silt loam	CL, ML, SC, SM	A-2, A-4, A-6	---	0-5	80-100	75-95	50-90	25-85	15-30	NP-15
	6-21	Loam, silt loam, clay loam	CL	A-6	---	0-10	85-100	75-95	65-90	55-85	25-40	10-20
	21-47	Clay	CH, CL, SC	A-7	---	0-5	85-100	75-95	60-95	40-80	40-60	20-35
	47-65	Silty clay, sandy clay loam, loam	CL, ML, SC, SM	A-4, A-6	---	0-5	85-100	75-95	60-85	40-80	15-40	NP-25
MaB: Macove-----												
	0-4	Channery silt loam	GM, SM	A-1-b, A-2-4, A-4	0-10	5-10	30-60	25-60	20-50	15-40	20-30	NP-7
	4-14	Very gravelly silt loam, very channery silt loam, very gravelly loam	GM, GP-GM, SM	A-1-a, A-1-b, A-4	10-20	5-45	40-65	30-60	25-50	5-40	20-30	NP-7
	14-65	Extremely gravelly silt loam, very gravelly loam, channery silt loam	GM, GP-GM, SM	A-1-a, A-1-b, A-2	10-30	25-75	35-60	25-50	20-45	5-25	20-30	NP-7
MaC: Macove-----												
	0-4	Channery silt loam	GM, SM	A-1-b, A-2-4, A-4	0-10	5-10	30-60	25-60	20-50	15-40	20-30	NP-7
	4-14	Very gravelly silt loam, very channery silt loam, very gravelly loam	GM, GP-GM, SM	A-1-b, A-4, A-1-a	10-20	5-45	40-65	30-60	25-50	5-40	20-30	NP-7
	14-65	Extremely gravelly silt loam, very gravelly loam, channery silt loam	GM, GP-GM, SM	A-1-a, A-1-b, A-2	10-30	25-75	35-60	25-50	20-45	5-25	20-30	NP-7

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
MaD: Macove-----	0-4	Channery silt loam	GM, SM	A-1-b, A-2-4, A-4	0-10	5-10	30-60	25-60	20-50	15-40	20-30	NP-7
	4-14	Very gravelly silt loam, very channery silt loam, very gravelly loam	GM, GP-GM, SM	A-1-a, A-1-b, A-4	10-20	5-45	40-65	30-60	25-50	5-40	20-30	NP-7
	14-65	Extremely gravelly silt loam, very gravelly loam, channery silt loam	GM, GP-GM, SM	A-1-a, A-1-b, A-2	10-30	25-75	35-60	25-50	20-45	5-25	20-30	NP-7
McC: Macove-----	0-4	Silt loam	GM, SM	A-1-b, A-2-4, A-4	1-5	5-10	30-60	25-60	20-50	15-40	20-30	NP-7
	4-14	Channery silt loam, channery loam, channery silty clay loam	GM, SM	A-1-b, A-2-4, A-4	0-10	5-10	30-60	25-60	20-50	15-40	20-30	NP-7
	14-65	Very channery silty clay loam, extremely channery silty clay loam, very channery silt loam	GM, GP-GM, SM	A-1-a, A-1-b, A-2	10-30	25-75	35-60	25-50	20-45	5-25	20-30	NP-7

Table H.--Engineering Index Properties--Continued

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Table H.--Engineering Index Properties--Continued

[illegible]

Table H.--Engineering Index Properties--Continued

[illegible]

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
MfG:												
Mandy-----	0-5	Silt loam	CL, CL-ML	A-4	---	15-30	65-80	60-75	55-70	50-65	20-32	4-10
	5-28	Channery silt loam, very channery silt loam, extremely channery loam	GC, GM, SC, SM	A-1, A-2, A-4	---	0-30	40-80	35-70	25-60	20-45	20-32	4-10
	28-36	Extremely channery silt loam, extremely channery loam	GC, GM, SC, SM	A-1, A-2	---	0-40	35-65	25-55	20-40	15-35	20-32	4-10
	36-40	Weathered bedrock			---	---	---	---	---	---	---	---
Mh:												
Medihemists----	---	---	---	---	---	---	---	---	---	---	---	---
MrB:												
Mertz-----	0-3	Channery silt loam	GM, ML	A-4	---	5-10	70-95	55-85	45-85	40-75	---	NP
	3-54	Gravelly clay loam, very gravelly silty clay loam, gravelly loam	CL, GC, GM, ML	A-4, A-6, A-7	---	5-20	55-95	45-85	45-85	40-75	30-45	7-20
	54-65	Gravelly clay loam, very gravelly loam, very gravelly silty clay loam	CL, GC, SC	A-2, A-6, A-7	---	5-50	55-80	30-75	30-70	25-55	30-45	10-20

Table H.--Engineering Index Properties--Continued

[illegible]

Table H.--Engineering Index Properties--Continued

[illegible]

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
Pu:												
Purdy-----	0-5	Silt loam	CL, ML	A-4, A-6, A-7	0	0	95-100	90-100	90-100	90-100	25-50	4-20
	5-38	Silty clay, clay, clay loam	CH, CL, MH	A-6, A-7	0	0	95-100	90-100	85-100	75-85	30-65	11-30
	38-65	Silty clay, clay loam, clay	CH, CL, MH	A-6, A-7	0	0	95-100	90-100	85-100	70-95	30-65	11-30
Sc:												
Sees-----	0-8	Silt loam	CL, ML	A-6, A-7	---	0-15	90-100	90-100	80-100	70-90	30-45	12-25
	8-58	Silty clay, clay, silty clay loam	CH, CL, MH	A-6, A-7	---	0-15	90-100	90-100	85-100	80-95	35-70	20-40
	58-65	Silty clay, clay, flaggy silty clay	CH, CL, MH	A-7	---	0-30	80-100	80-100	75-100	70-95	45-75	25-45
Unnamed Series--	---	---	---	---	---	---	---	---	---	---	---	---
Se:												
Sensabaugh-----	0-6	Silt loam	CL, CL-ML, ML	A-4	---	0-5	90-100	75-95	65-85	55-75	16-29	3-9
	6-21	Gravelly loam, gravelly clay loam, gravelly silty clay loam	CL, CL-ML, GC, SC-SM	A-4, A-6	---	2-18	70-95	55-90	45-75	35-65	20-35	5-14
	21-40	Gravelly loam, gravelly clay loam, gravelly silty clay loam	GC, GC-GM, SC, SC-SM	A-4, A-6	---	5-25	70-90	55-75	45-65	35-55	22-36	6-15
	40-65	Gravelly loam, gravelly clay loam, gravelly fine sandy loam	GC, GC-GM, SC, SC-SM	A-2, A-4, A-6	---	5-30	55-90	25-75	25-65	20-55	20-36	6-15

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
ShB: Shouns-----	0-3	Silt loam	CL, CL-ML, ML	A-4, A-6	0	0	80-100	75-100	65-95	55-90	15-30	3-12
	3-6	Silty loam, loam	CL, CL-ML, ML	A-4, A-6	0	0	80-100	75-100	70-95	60-90	15-35	5-15
	6-40	Silty clay loam, clay loam	CL, ML	A-4, A-6	0	0	80-100	75-100	70-95	60-90	25-40	8-17
	40-65	Silty clay loam, clay loam, channery clay loam	CL, ML	A-6, A-7	0	10-25	75-100	65-90	60-85	50-75	30-45	10-20
ShC: Shouns-----	0-3	Silt loam	CL, CL-ML, ML	A-4, A-6	0	0	80-100	75-100	65-95	55-90	15-30	3-12
	3-6	Silt loam, loam	CL, CL-ML, ML	A-4, A-6	0	0	80-100	75-100	70-95	60-90	15-35	5-15
	6-40	Silty clay loam, clay loam	CL, ML	A-4, A-6	0	0	80-100	75-100	70-95	60-90	25-40	8-17
	40-65	Silty clay loam, clay loam, channery clay loam	CL, ML	A-6, A-7	0	10-25	75-100	65-90	60-85	50-75	30-45	10-20
SsC: Shouns-----	0-3	Silt loam	CL, CL-ML, ML	A-4, A-6	10-20	5-15	80-100	75-100	65-95	55-90	15-30	3-12
	3-40	Silty clay loam, clay loam	CL, CL-ML	A-4, A-6	0-5	0-5	80-100	75-100	70-95	60-90	25-40	8-17
	40-65	Silty clay loam, clay loam, channery clay loam	CL, ML	A-6, A-7	0-5	10-25	75-100	65-90	60-85	50-75	30-45	10-20
SsE: Shouns-----	0-3	Silt loam	CL, CL-ML, ML	A-4, A-6	10-20	5-15	80-100	75-100	65-95	55-90	15-30	3-12
	3-40	Silty clay loam, clay loam	CL, CL-ML	A-4, A-6	0-5	0-5	80-100	75-100	70-95	60-90	25-40	8-17
	40-65	Silty clay loam, clay loam, channery clay loam	CL, ML	A-6, A-7	0-5	10-25	75-100	65-90	60-85	50-75	30-45	10-20

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
SsF: Shouns-----	0-3	Silt loam	CL, CL-ML, ML	A-4, A-6	10-20	5-15	80-100	75-100	65-95	55-90	15-30	3-12
	3-40	Silty clay loam, clay loam	CL, CL-ML	A-4, A-6	0-5	0-5	80-100	75-100	70-95	60-90	25-40	8-17
	40-65	Silty clay loam, clay loam, channery clay loam	CL, ML	A-6, A-7	0-5	10-25	75-100	65-90	60-85	50-75	30-45	10-20
SwE: Snowdog-----	0-2	Silt loam	CL, CL-ML, SC, SC-SM	A-2, A-4	5-25	0-25	60-95	55-90	45-90	30-80	20-30	5-10
	2-16	Silt loam, channery silt loam, very channery loam	CL, ML, SC, SM	A-2, A-4, A-6	0-10	0-15	60-95	55-90	45-90	32-80	25-35	5-15
	16-40	Channery sandy loam, very channery sandy loam, very channery loam	CL, ML, SC, SM	A-2, A-4, A-6	0-15	10-30	45-80	40-75	25-75	10-70	25-35	5-15
	40-65	Channery silt loam, very channery loam, very channery sandy loam	CL, ML, SC, SM	A-2, A-4, A-6	0-15	10-30	45-80	40-75	25-75	10-70	20-40	5-20
Tg: Tioga-----	0-10	Fine sandy loam	ML, SM	A-4	0	0	100	95-100	65-95	40-85	15-15	NP-4
	10-38	Silt loam, loam, gravelly fine sandy loam	GM, ML, SM	A-1, A-2, A-4	0	0	55-100	50-100	35-90	20-80	15-15	NP-2
	38-65	Silt loam, gravelly loam, very gravelly loamy sand, fine sandy loam	GM, GW-GM, ML, SM	A-1, A-2, A- 3, A-4	---	0-10	35-100	30-100	15-90	5-80	15-15	NP-2

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
TrC: Trussel-----	0-6	Silt loam	CL, CL-ML, SC	A-4	---	15-30	75-100	70-100	60-95	45-90	20-30	5-10
	6-18	Channery silt loam, channery loam, silty clay loam	CL, ML, SC	A-4, A-6	---	0-10	75-100	70-100	60-100	45-95	25-40	7-14
	18-35	Channery silt loam, very channery loam, channery loam	CL, GC, ML, SC	A-2, A-4, A-6	---	0-30	45-90	40-85	35-80	25-75	25-35	7-14
	35-65	Channery silt loam, very channery loam, channery loam	CL, GC, ML, SC	A-2, A-4, A-6	---	0-30	45-90	40-85	35-80	25-75	25-35	7-14
Uf: Udlfluvents-----	---	---	---	---	---	---	---	---	---	---	---	---
Fluvaquents-----	---	---	---	---	---	---	---	---	---	---	---	---
Other Soils-----	---	---	---	---	---	---	---	---	---	---	---	---
Us: Udorthents-----	---	---	---	---	---	---	---	---	---	---	---	---
W: Water-----	---	---	---	---	---	---	---	---	---	---	---	---
WeC: Weikert-----	0-6	Channery silt loam	GM, ML, SM	A-1, A-2, A-4	0	0-10	35-70	35-70	25-65	20-55	30-40	4-10
	6-15	Channery loam, very channery silt loam, gravelly loam	GM, GP-GM	A-1, A-2	0-1	0-20	15-60	10-55	5-45	5-35	28-36	3-9
	15-19	Weathered bedrock			---	---	---	---	---	---	---	---
WeD: Weikert-----	0-6	Channery silt loam	GM, ML, SM	A-1, A-2, A-4	0	0-10	35-70	35-70	25-65	20-55	30-40	4-10
	6-15	Channery loam, very channery silt loam, gravelly loam	GM, GP-GM	A-1, A-2	0-1	0-20	15-60	10-55	5-45	5-35	28-36	3-9
	15-19	Weathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

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